

ABSTRACT OF THE DISCLOSURE

An apparatus for controlling the temperature of a substrate which includes a substrate table and a thermal assembly arranged in the substrate table and in thermal communication with a thermal surface of the substrate table. The thermal assembly includes a channel that carries a heat-transfer fluid. The apparatus further includes a fluid thermal unit which includes a first fluid unit configured to control the temperature of the heat-transfer fluid to a first temperature, a second fluid unit configured to control the temperature of the heat-transfer fluid to a second temperature, and an outlet flow control unit that is in fluid communication with the channel of the thermal assembly and the first and second fluid units. The outlet flow control unit is configured to supply the channel with a controlled heat transfer fluid, which includes at least one of the heat-transfer fluid having a first temperature, the heat transfer fluid having a second temperature or a combination thereof.